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INDEX TO AMERICAN BOTANICAL LITERATURE

(1905)

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material ; the word America being used in its broadest sense.

Reviews, and papers which relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omission their kindness will be appreciated.

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Anderson, J. P. Thalloid liverworts of Decatur County. Iowa Nat. 1: 33, 44. Ap 1905.

Bauer, E. *Musci* alegrenses. Enumération de mousses et hépatiques récoltées par M. Ed. Martin Reineck et M. Josef Czermack en 1897-1899 au Brésil. Rev. Bryol. 32: 11. 1905.

Beal, W. J. Plants that hide from animals. Pop. Sci. Mo. 67: 178-183. f. 1-8. Je 1905.

Beal, W. J. The vitality of seeds. Bot. Gaz. 40: 140-143. 16 Au 1905.

Bentley, J. Pitch pine in Pike County, Pennsylvania. Forestry Quart. 3: 1-17. F 1905. [Illust.]

Berger, A. A systematic revision of the genus *Cereus* Mill. Ann. Rep. Missouri Bot. Gard. 16: 57-86. pl. 1-12. 1905.

Berry, E. W. The ancestors of the big trees. Pop. Sci. Mo. 67: 465-474. f. 1-4. S 1905.

Bessey, C. E. Life in a seaside summer school. Pop. Sci. Mo. 67: 80-89. My 1905. [Illust.]

The Minnesota Seaside Station, Port Renfrew, British Columbia.

Bolley, H. L. New work upon wheat rust. Science II. 22: 50, 51. 14 Jl 1905.

- Breazeale, J. F.** Effect of the concentration of the nutrient solution upon wheat cultures. *Science* II. **22**: 146-149. 4 Au 1905.
- Britton, N. L.** Contributions to the flora of the Bahama Islands — I. *Bull. N. Y. Bot. Gard.* **3**: 441-453. 7 F 1905; — II. *Bull. N. Y. Bot. Gard.* **4**: 115-127. 24 Au 1905.
Includes descriptions of 27 new species in 23 genera.
- Britton, N. L.** Nomenclature at the Vienna international botanical congress. *Science* II. **22**: 217-219. 18 Au 1905.
- Britton, N. L.** Report on a trip to Europe. *Jour. N. Y. Bot. Gard.* **6**: 123-129. Au 1905.
- Bush, B. F.** The North American species of *Fuirena*. *Ann. Rep. Missouri Bot. Gard.* **16**: 87-99. 1905.
Two species are described as new.
- Bush, B. F.** Two new Texas tradescantias. *Ann. Rep. Missouri Bot. Gard.* **16**: 100, 101. 1905.
- Cannon, W. A.** On the transpiration of *Fouquieria splendens*. *Bull. Torrey Club* **32**: 397-414. *f.* 1-7. 28 Au 1905.
- Chamberlain, C. J.** Alternation of generation in animals. *Science* II. **22**: 208-211. *f.* 1, 2. 18 Au 1905.
- Christensen, C.** Index filicum. **1**: 1-64. 5 My 1905; **2**: 65-128. 1 Jl 1905.
- Clinton, G. P.** The *Ustilagineae*, or smuts, of Connecticut. *Conn. Geol. & Nat. Hist. Surv. Bull.* **5**: 1-45. *f.* 1-53. 1905.
- Cockerell, T. D. A.** Biology in the Rocky Mountains. *Pop. Sci. Mo.* **67**: 162-169. Je 1905.
- Cockerell, T. D. A.** Names of insects. *Torrey* **5**: 145, 146. 26 Au 1905.
- Coker, W. C.** Observations on the flora of the Isle of Palms, Charleston, S. C. *Torrey* **5**: 135-145. 26 Au 1905.
- Conzatti, C.** Los géneros vegetales Mexicanos. **1**: 397-451. Mexico, 1905.
- Coulter, J. M.** Public interest in research. *Pop. Sci. Mo.* **67**: 306-312. Au 1905.
- Cratty, R. I.** The flora of Emmet County, Iowa, II. *Iowa Nat.* **1**: 36-38. Ap 1905.
- Dammer, U.** *Malortia Tuerckheimii* U. D. *Gard. Chron.* III. **37**: 19. 14 Ja 1905.
A new species, native of Guatemala.
- Dammer, U.** Species of *Chamaedorea* with pinnate leaves. *Gard. Chron.* III. **38**: 42-44. 15 Jl 1905.

- Dammer, U.** Zwei neue amerikanische Palmen. Bot. Jahrb. Beibl. 80: 31-33. 13 Je 1905.
Wendlandiella gracilis gen. et sp. nov., from Brazil, and *Geonoma Donnell-Smithii* sp. nov., from Guatemala.
- Dandridge, D.** Trees in winter. Garden 67: 56, 57. 28 Ja 1905.
- Dean, A. L.** On proteolytic enzymes — II. Bot. Gaz. 40: 121-134. 16 Au 1905.
- De Vries, H.** A visit to Luther Burbank. Pop. Sci. Mo. 67: 329-347. Au 1905. [Illust.]
- Dietel, P.** Ueber die Arten der Gattung *Phragmidium*. Hedwigia 44: 112. pl. 4. 31 Ja 1905; 113-132. 13 Mr 1905.
Includes descriptions of 4 new American species.
- Eastman, C. R.** On the spelling of "clon." Science II. 22: 206. 18 Au 1905.
- Eastwood, A.** A handbook of the trees of California. Occ. Papers Calif. Acad. Sci. 9: 1-86. pl. 1-57. 8 Jl 1905.
- Edwards, H. T.** The vegetable fibers of the Philippine Islands. Pop. Sci. Mo. 67: 222-230. f. 1-3. Jl 1905.
- Evans, A. W.** A remarkable *Psilidium* from Japan. Rev. Bryol. 32: 57-60. f. 1-6. 1905.
P. Bissetii (Mitt.) Evans.
- Faull, J. H.** Development of ascus and spore formation in *Ascomycetes*. Proc. Boston Soc. Nat. Hist. 32: 77-113. pl. 7-11. Je 1905.
- Fitzpatrick, T. J.** Additions to the bibliography of Rafinesque. Iowa Nat. 1: 10-21. Ja 1905.
- Fitzpatrick, T. J.** The Iowa bladderworts. Iowa Nat. 1: 30-33. Ap 1905.
- Fitzpatrick, T. J.** Plants new or little known to the flora of Iowa. Iowa Nat. 1: 22-24. Ja 1905.
- Fletcher, J.** Botanical notes. Ottawa Nat. 19: 110. 8 Au 1905.
The fruit of *Epigaea repens*; rare Ottawa plants.
- Gepp, A. & E. S.** Atlantic algae of the "Scotia." Jour. Bot. 43: 109, 110. Ap 1905.
Collected chiefly off the coast of Brazil.
- Gepp, A. & E. S.** Notes on *Penicillus* and *Rhipocephalus*. Jour. Bot. 43: 1-5. pl. 468. Ja 1905.
Including description of *P. pyriformis* sp. nov., from the West Indies and Florida.
- Goebel, K.** The fundamental problems of present-day plant morphology. Science II. 22: 33-45. 14 Jl 1905.

- Greene, E. L.** New British Columbian *Rosaceae*. Ottawa Nat. **18**: 215, 216. 14 Mr 1905.
New species in *Malus* and *Fragaria* (2).
- Greene, E. L.** A new papaveraceous genus. Pittonia **5**: 293, 294. 10 Je 1905.
Petromecon, a segregate from *Eschscholtzia*, with the description of a new species.
- Greene, E. L.** Revision of *Eschscholtzia*. Pittonia **5**: 205-293. 10 Je 1905.
Recognizes 112 species, of which 84 are described as new.
- Greene, E. L.** A study of *Dendromecon*. Pittonia **5**: 295-306. 10 Je 1905.
Recognizes 17 species, of which 14 are described as new.
- Greene, E. L.** Suggestions regarding *Sanguinaria*. Pittonia **5**: 306-308. 10 Je 1905.
With descriptions of 4 new species.
- Greenman, J. M.** A new *Krynitzkia*. Bot. Gaz. **40**: 146, 147. 16 Au 1905.
K. Suksdorfii sp. nov., from the state of Washington.
- Hanmer, C. C.** A note regarding the discharge of spores of *Pleurotus ostreatus*. Torreya **5**: 146, 147. 26 Au 1905.
- Harris, J. A.** The dehiscence of anthers by apical pores. Ann. Rep. Missouri Bot. Gard. **16**: 167-257. 1905.
- Hedgcock, G. G.** A disease of cauliflower and cabbage caused by *Sclerotinia*. Ann. Rep. Missouri Bot. Gard. **16**: 149-151. *pl.* 32-34. 1905.
- Hedgcock, G. G.** A disease of cultivated agaves due to *Colletotrichum*. Ann. Rep. Missouri Bot. Gard. **16**: 153-156. *pl.* 35-37. 1905.
- Hedgcock, G. G.** Some of the results of three years' experiments with crown gall. Science II. **22**: 120-122. 28 Jl 1905.
- Hemsley, W. B.** *Swietenia Mahogani* Jacq. var. *praecociflora* Hemsl. Hook. Ic. Pl. IV. **8**: *pl.* 2786. Ja 1905.
A new variety, described from plants cultivated in Trinidad.
- Hennings, P.** Einige schädliche parasitische Pilze auf exotischen Orchideen unserer Gewächshäuser. Hedwigia **44**: 168-178. 13 Mr 1905.
- Hennings, P.** *Fungi amazonici* IV. a cl. Ernesto Ule collecti. Hedwigia **44**: 57-71. 31 Ja 1905. [Illust.]
With descriptions of 47 new species in 36 genera, of which 2 are new.
- Hieronymus, G.** *Aspleniorum* species novae et non satis notae. Hedwigia **44**: 193-198. *pl.* 6. 29 Ap 1905.
Includes *A. galipanense* sp. nov. from Venezuela.

- Hieronimus, G.** Einige Berichtigungen zu der Abhandlungen: "Plantae Lehmannianae in Guatemala, Colombia et Ecuador regionibusque finitimis collectae, additis quibusdam ab aliis collectoribus ex iisdem regionibus allatis determinatae et descriptae; *Pteridophyta*." Hedwigia 44: 179, 180. 13 Mr 1905.
- Hieronimus, G.** Plantae Lehmannianae in Guatemala, Colombia et Ecuador regionibusque finitimis collectae, additis quibusdam ab aliis collectoribus ex iisdem regionibus allatis determinatae et descriptae. *Pteridophyta* [continuatio]. Bot. Jahrb. 34: 561-582. 20 Ja 1905.
Including new species in *Gleichenia* (2) and *Lycopodium* (3).
- Hieronimus, G.** *Polypodium* species novae et non satis notae. Hedwigia 44: 78-105. 31 Ja 1905.
Contains much relating to American species, including *P. Sintenisii* sp. nov. from Porto Rico.
- Hitchcock, A. S.** The identification of Walter's grasses. Ann. Rep. Missouri Bot. Gard. 16: 31-56. 1905.
- Höck, F.** Hauptergebnisse meiner Untersuchungen über die Gesamtverbreitung der in Nord-Deutschland vorkommenden Allerweltpflanzen. Beih. Bot. Centralb. 18²: 394-416. 1905.
- Holm, T.** *Anemiopsis californica* (Nutt.) H. et A. An anatomical study. Am. Jour. Sci. IV. 19: 76-82. f. 1-6. Ja 1905.
- Holm, T.** *Croomia pauciflora* Torr. An anatomical study. Am. Jour. Sci. IV. 20: 50-54. f. 1. Jl 1905.
- Holmberg, E. L.** *Zephyranthes jujuyensis* Holmb. n. sp. Anal. Mus. Nac. Buenos Aires III. 4: 523, 524. 19 Ja 1905.
- Jordan, D. S.** Some experiments of Luther Burbank. Pop. Sci. Mo. 66: 201-225. Ja 1905. [Illust.]
- Kindberg, N. C.** New North American *Bryineae*. Rev. Bryol. 32: 33-38. 1905.
Descriptions of 26 new species in 18 genera.
- Klugh, A. B.** Some of the rarer plants of Wellington County, Ont. Ottawa Nat. 18: 217-219. 14 Mr 1905.
- Kränzlin, F.** *Orchidaceae* americanae. Bot. Jahrb. Beibl. 80: 7-10. 13 Je 1905.
Descriptions of 6 new South American species, in 5 genera.
- Life, A. C.** Vegetative structure of *Mesogloia*. Ann. Rep. Missouri Bot. Gard. 16: 157-160. pl. 38. 1905.
- Lloyd, F. E.** A botanical laboratory in the desert. Pop. Sci. Mo. 66: 329-342. F 1905. [Illust.]
The Desert Botanical Laboratory of the Carnegie Institution, at Tucson, Arizona.

- McCallum, W. B.** Regeneration in plants. *Bot. Gaz.* **40**: 97-120.
f. 1-14. 16 Au 1905.
- MacDougal, D. T.** Hugo de Vries. The Open Court **19**: 449-452.
portrait. Au 1905.
- MacDougal, D. T.** The suwarro, or tree cactus. *Jour. N. Y. Bot. Gard.* **6**: 129-133. f. 31, 32. Au 1905.
- Mackenzie, K. K. & Bush, B. F.** New plants from Missouri. *Ann. Rep. Missouri Bot. Gard.* **16**: 102-108. 1905.
New species in *Sagittaria*, *Heuchera*, *Convolvulus*, *Dasystoma*, *Xanthium* and *Senecio*.
- Martin, H. M.** Studies on the effect of some concentrated solutions on the osmotic activity of plants. *Bull. Torrey Club* **32**: 415-429.
28 Au 1905.
- Maublanc, A.** Espèces nouvelles de champignons inférieurs. *Bull. Soc. Myc. France* **21**: 87-94. pl. 6, 7. 5 Ap 1905.
Includes descriptions of new Brazilian species in *Leptosphaeria* (2) and *Pestalozzia* (2).
- Millspough, C. F. & Loesener, T.** *Plantae a clariss. Ed. et Caec. Seler in Yucatan collectae.* *Bot. Jahrb. Beibl.* **80**: 11-30. 13 Je 1905.
Includes descriptions of 8 new species in 6 genera, of which 2 are new.
- Moore, A. C.** Sporogenesis in *Pallavicinia*. *Bot. Gaz.* **40**: 81-96.
pl. 3, 4. 16 Au 1905.
- Morgan, T. H.** The origin of species through selection contrasted with their origin through the appearance of definite variations. *Pop. Sci. Mo.* **67**: 54-65. My 1905.
- Pampanini, R.** Le Cunoniacee degli erbari di Firenze e di Ginevra. *Ann. di Bot.* **2**: 43-106. pl. 5-7. 10 Ja 1905.
New American species are described in *Belangeria* and *Weinmannia* (3).
- Peck, C. H.** Report of the State Botanist, 1904. *N. Y. State Mus. Bull.* **94**: 1-58. pl. 87-93 + P-R. Jl 1905.
Includes new species in *Amanita*, *Boletus* (3), *Clavaria* (2), *Cortinarius*, *Lactarius* (2), and *Pholiota*.
- Piper, C. V.** *Poa gracillima* Vasey and its allies. *Bull. Torrey Club* **32**: 435-437. 28 Au 1905.
- Pollard, C. L.** On the spelling of "clon." *Science II.* **22**: 87, 88.
21 Jl 1905.
- Porsch, O.** Beiträge zur "histologischen Blütenbiologie." I. Ueber zwei neue Insektenanlockungsmittel der Orchideenblüte. *Oesterr. Bot. Zeits.* **55**: 164-173. pl. 3. My 1905; 227-235. pl. 4. Je 1905; 253-260. Jl 1905.
Based chiefly upon Brazilian material.

- Porsch, O.** Neue Orchideen aus Südbrasilien. Oesterr. Bot. Zeits. **55**: 150-163. Ap 1905.
 Descriptions of 22 new species in 11 genera.
- Reiche, K.** Die systematische Stellung von *Lenzia chamaepitys* Phil. Bot. Jahrb. **36**: 82-86. f. 1. 28 F 1905.
- Rendle, A. B.** *Verbena Pritchardii*. Jour. Bot. **43**: 33. Ja 1905.
 A new name for *V. bonariensis* Rendle, which was preoccupied.
- Röll, J.** Beiträge zur Torfmoosflora des Cascadengebirges in Nord-Amerika (Schluss). Hedwigia **44**: 49. 31 Ja 1905.
- Rose, J. N. & Painter, J. H.** Some Mexican species of *Cracca*, *Parosela* and *Meibomia*. Bot. Gaz. **40**: 143-146. pl. 5. 16 Au 1905.
 With new species in *Cracca* and *Meibomia* (4).
- Rothrock, J. T.** Cucumber tree (*Magnolia acuminata* L.). Forest Leaves **10**: 40. Je 1905. [Illust.]
- Rothrock, J. T.** Green ash. (*Fraxinus viridis* Michx. f. *Fraxinus lanceolata* Borck.) Forest Leaves **10**: 24. Ap 1905. [Illust.]
- Rothrock, J. T.** Red ash. (*Fraxinus pennsylvanica* Marshall. *Fraxinus pubescens* Lam.) Forest Leaves **10**: 8. F 1905. [Illust.]
- Rothrock, J. T.** Striped maple — moose wood. (*Acer pennsylvanicum* L.) Forest Leaves **10**: 56. Au 1905. [Illust.]
- Schneider, A.** *Chroolepus aureus* a lichen. Bull. Torrey Club **32**: 431-434. pl. 22. 28 Au 1905.
- Schneider, A.** Contributions to the biology of rhizobia. IV: Two coast rhizobia of Vancouver Island, B. C. Bot. Gaz. **40**: 135-139. f. 1-3. 16 Au 1905.
- Schrenk, H. von.** Glassy fir. Ann. Rep. Missouri Bot. Gard. **16**: 117-120. pl. 20, 21. 1905.
- Schrenk, H. von.** Intumescences formed as a result of chemical stimulation. Ann. Rep. Missouri Bot. Gard. **16**: 125-148. pl. 25-31. 1905.
- Schrenk, H. von.** On the occurrence of *Peronospora parasitica* on cauliflower. Ann. Rep. Missouri Bot. Gard. **16**: 121-124. pl. 22-24. 1905.
- Shafer, J. A.** The botanical symposium at Ohio Pyle, Pennsylvania. Torreya **5**: 152-154. 26 Au 1905.
- Shaw, G. R.** *Pinus Nelsoni*. Gard. Chron. III. **37**: 306, 307. f. 127. 20 My 1905.

- Sheldon, J. L.** Concerning the identity of the fungi causing an anthracnose of the sweet-pea and the bitter-rot of the apple. *Science* II. **22**: 51, 52. 14 Jl 1905.
- Shull, G. H.** Stages in the development of *Sium cicutaefolium*. 1-28. *pl.* 1-7 + *f.* 1-11. My 1905.
Carnegie Inst. Wash. Publ. No. 30.
- Small, J. K.** Additions to the flora of subtropical Florida. *Bull. N. Y. Bot. Gard.* **3**: 419-440. *map.* 27 Ja 1905.
With descriptions of 30 new species in 24 genera.
- Spaulding, P.** A disease of black oaks caused by *Polyporus obtusus* Berk. *Ann. Rep. Missouri Bot. Gard.* **16**: 109-116. *pl.* 13-19. 1905.
- Spegazzini, C.** *Cactacearum platensium* tentamen. *Anal. Mus. Nac. Buenos Aires* III. **4**: 477-521. 19 Ja 1905.
New species are described in *Cereus* (6), *Echinopsis* (12), *Echinocactus* (12), and *Opuntia* (12).
- Stephani, F.** *Hepaticae amazonicae* ab Ernesto Ule collectae. *Hedwigia* **44**: 223-229. 29 Ap 1905.
Includes descriptions of 9 new species in 8 genera.
- Stevens, F. L.** The science of plant pathology. *Pop. Sci. Mo.* **67**: 399-408. S 1905.
- Sudworth, G. B.** A new species of juniper for Texas. *Forestry and Irrig.* **11**: 203-206. *f.* 1-4. My 1905.
Juniperus Pinchoti sp. nov.
- Therese Prinzessin von Bayern.** Auf einer Reise in Südamerika gesammelte Pflanzen. *Beih. Bot. Centralb.* **18**²: 523-526. 1905.
- Thomson, R. B.** The megaspore-membrane of the gymnosperms. *Univ. Toronto Stud. Biol.* **4**: 1-64. *pl.* 1-5. 1905.
- Thomson, R. B.** Preliminary note on the *Araucarineae*. *Science* II. **22**: 88. 21 Jl 1905.
- Trelease, W.** Illustrations of a "strangling" fig tree. *Ann. Rep. Missouri Bot. Gard.* **16**: 161-165. *pl.* 39-45. 1905.
- Ule, E.** Die Kautschukpflanzen der Amazonas-Expedition und ihre Bedeutung für die Pflanzengeographie. *Bot. Jahrb.* **35**: 663-678. *f.* 1-3. 18 Ap 1905.
New species are described in *Hevea* (3), *Sapium* (2), and *Castilloa*.
- Ule, E.** Wechselbeziehungen zwischen Ameisen und Pflanzen. *Flora* **94**: 491-497. 11 My 1905.
- Vickers, A.** Liste des algues marines de la Barbade. *Ann. Sci. Nat.* IX. **1**: 45-64. Ap 1905; 65, 66. My 1905.
New species are described in *Cladophora*, *Ectocarpus* (3), *Acrochaetum*, *Nemalion*, *Chondria*, *Thuretia*, *Griffithsia*, *Monospora* and *Rhodochorton*.